

Title (en)
CHROMIUM-CONTAINING COMPLEX POLYMERISATION CATALYST

Publication
EP 0416786 A3 19910918 (EN)

Application
EP 90309282 A 19900823

Priority
GB 8919924 A 19890904

Abstract (en)
[origin: EP0416786A2] The present invention relates to an olefin polymerisation catalyst obtainable by depositing on a dry inorganic oxide support a mononuclear chromium complex which is a mixture of (A) a first mononuclear chromium complex represented by the general formula: <CHEM> wherein - three of R1 to R5 are H and the other two are H, or C1-3 hydrocarbyl group, and - L is one or more hydrocarbyl ligands which are sufficiently reactive to enable the complex to react with the inorganic oxide without thermal activation, and (B) a second mononuclear chromium complex representable by the general formula: <CHEM> wherein - the cyclopentadienyl ligand is substituted with 4 or 5 hydrocarbyl groups (R1-R5) containing 1 to 3 carbon atoms, and - L has the same definition as above, being identical or different. The catalyst can be used for polymerising olefins, particularly ethylene optionally with C3-8 alpha-olefins. It can be thermally activated before use in olefin polymerisation. It produces polyolefins having a relatively broad molecular weight distribution, the breadth and shape of which being easily controlled.

IPC 1-7
C08F 10/00; **C08F 4/78**

IPC 8 full level
C08F 4/00 (2006.01); **C08F 4/24** (2006.01); **C08F 4/78** (2006.01); **C08F 10/00** (2006.01)

CPC (source: EP KR US)
C08F 4/00 (2013.01 - KR); **C08F 10/00** (2013.01 - EP US)

Citation (search report)
• [A] FR 2193838 A1 19740222 - UNION CARBIDE CORP [US]
• [A] US 1435273 A 19221114 - JAMES BARRY
• [A] US 3879368 A 19750422 - JOHNSON ROBERT N

Cited by
US5418200A; US5714424A; EP0763550A1; US5723399A; WO9621684A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0416786 A2 19910313; **EP 0416786 A3 19910918**; BR 9004366 A 19910903; CA 2024464 A1 19910305; CN 1050027 A 19910320; FI 904334 A0 19900903; GB 8919924 D0 19891018; JP H0393805 A 19910418; KR 910006333 A 19910429; NO 903835 D0 19900903; NO 903835 L 19910305; TW 201316 B 19930301; US 5169816 A 19921208

DOCDB simple family (application)
EP 90309282 A 19900823; BR 9004366 A 19900903; CA 2024464 A 19900831; CN 90107469 A 19900904; FI 904334 A 19900903; GB 8919924 A 19890904; JP 23545290 A 19900904; KR 900013939 A 19900904; NO 903835 A 19900903; TW 79107088 A 19900823; US 57556290 A 19900829